

Appl. No. : 10/748,869
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AMENDMENTS TO THE CLAIMS

1. **(Currently amended)** A dental implant system, comprising:
a dental implant including a body portion and an abutment portion that is integrally formed with the body portion, the implant body portion located at a distal end and configured to lie at least partially below a crest of a patient's jawbone, the abutment portion located at a proximate end of the implant and configured to lie at least partially above the crest of the patient's jawbone, the abutment portion comprising a flared portion, a shoulder portion and a final restoration portion, the shoulder portion lying between the flared portion and the final restoration portion, the dental implant further including a bore that extends generally along the longitudinal axis of the dental implant from a top surface of the abutment portion, the bore including a notch configured to releasably receive one or more lever arms or prongs on a mating component; and

~~a cap mating component including a body portion having a proximal and a distal end, the body portion defining an inner cavity which is sized and adapted so that the cap fits over the final restoration portion~~ one or more lever arms or prongs configured to engage the notch.

2. **(Canceled)**

3. **(Original)** The dental implant system of Claim 1, wherein the body portion and the abutment portion of the implant are machined from a single piece of material.

4. **(Previously presented)** The dental implant system of Claim 1, wherein the cap further includes a tissue retention flange at the distal end that extends below the shoulder portion when the healing cap is coupled to the abutment portion.

5. **(Previously presented)** The dental implant system of Claim 4, wherein the tissue retraction flange also extends away from the flared portion forming a gap between the tissue retraction flange and the flared portion.

6. **(Previously presented)** The dental implant system of Claim 1, wherein the body portion of the cap includes a base portion that is configured to rest at least partially on the shoulder portion of the abutment portion.

7. **(Currently amended)** The dental implant system of Claim 1, wherein the body portion of the dental implant includes a bone apposition surface.

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8. **(Previously presented)** The dental implant system of Claim 1, wherein the cap is white.

9. **(Currently amended)** The dental implant system of Claim 1, wherein the healing cap has a color that is substantially the same a natural tooth.

10. **(Previously presented)** The dental implant system of Claim 1, wherein the abutment portion and the cap have round cross-sections.

11. **(Previously presented)** The dental implant system of Claim 1, wherein the abutment portion and the cap have non-round cross-sections.

12-17. **(Canceled)**

18. **(Original)** The dental implant system of Claim 1, in combination with a coping for creating a final restoration, the coping comprising a body portion having a proximal end, a distal end and an inner surface that defines an internal cavity and at least one standoff that extends from the inner surface towards a center of the internal cavity.

19. **(Original)** The dental implant system of Claim 18, wherein the at least one standoff extends at least about 25 microns from the inner surface.

20. **(Original)** The dental implant system of Claim 19, wherein the at least one standoff extends less than about 50 microns from the inner surface.

21. **(Original)** The dental implant system of Claim 18, wherein the coping is made of a material that can be melted and removed from a mold during an investment casting process.

22. **(Original)** The dental implant system of Claim 21, wherein the coping is made of plastic.

23. **(Original)** The dental implant system of Claim 22, wherein the coping is made from a material that is suitable for forming a portion of the final restoration.

24. **(Original)** The dental implant system of Claim 23, wherein the coping is made of gold.

25. **(Original)** The dental implant system of Claim 23, wherein the coping is made of a ceramic material.

26. **(Original)** The dental implant system of Claim 18, wherein the at least one standoff has a tapered shape.

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27. **(Original)** The dental implant system of Claim 18, further comprising a flanged region that configured to rest upon a shoulder of a final abutment.

28. **(Previously presented)** A method for installing a prosthetic tooth, comprising the steps of:

inserting a distal end of a body portion of a single stage dental implant having a body portion, an abutment portion and an internal bore having a notch into a patient's jawbone;

engaging a lever arm or prong of a mating component to the notch in the internal bore to releaseably couple a mating component to the dental implant;

coupling a healing cap to the abutment portion such that the abutment portion is positioned within an internal cavity of the healing cap; and

removing the healing cap from the abutment portion.

29. **(Previously presented)** A method as in Claim 28, wherein the step of coupling a healing cap to an abutment portion, further includes using a healing cap screw to couple the healing cap to the abutment portion.

30. **(Original)** A method as in Claim 28, further comprising

providing an impression cap with an injection port and a plurality of vent holes;

positioning the impression cap onto the abutment portion of the implant; and

injecting a first impression material into the impression cap through the injection port until the first impression material is extruded through at least one of the vent holes.

31. **(Original)** A method as in Claim 30, wherein the step of positioning the impression cap onto the abutment portion includes snapping the impression cap onto the shoulder of the abutment portion.

32. **(Original)** A method as in Claim 30, further including the steps of taking an impression of the patient's mouth by placing an impression tray filed with a second impression material over the impression cap and removing the impression tray and the impression cap from the patient's mouth.

33. **(Original)** A method as in Claim 30, further including modifying the shape of the abutment portion.

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34. **(Original)** A method as in Claim 30, wherein the step of injecting the first impression material into the impression cap includes inserting a tip of a syringe filled with the first impression material into the injection port of the impression cap.

35. **(Original)** A method as in Claim 28, further comprising:

providing a coping having a body portion that comprises a proximal end, a distal end and an inner surface that defines an internal cavity and at least one standoff that extends from the inner surface towards a center of the internal cavity;

providing an analogue of the abutment portion of the dental implant,

placing the coping over the analogue;

applying a material suitable for investment casting to an outer surface of the coping;

encasing the coping and the material suitable for investment casting in an investment material;

melting the coping and the material suitable for investment casting;

removing the coping and the material suitable for investment casting from the investment material; and

filling a cavity within the investment material with a material suitable for forming a part of a final restoration.

36. **(New)** The dental implant system as in Claim 1, wherein the bore of the dental implant further includes an anti-rotational chamber that extends from the top surface and includes one or more anti-rotation features and a threaded portion, wherein the notch is positioned between the anti-rotational chamber and the threaded portion